



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number 09/591,500

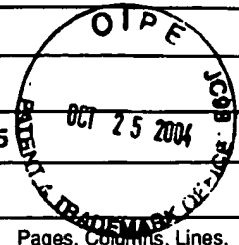
Filing Date June 12, 2000

First Named Inventor Gary PASTERNAK et al.

Art Unit 1642

Examiner Name Misook Yu

Attorney Docket Number 62732.000105



Sheet

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of

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U.S. PATENT DOCUMENTS

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

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NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
my	1.	KADKOL et al., "Novel Nuclear Phosphoprotein pp32 Is Highly Expressed in Intermediate-and High-Grade Prostate Cancer," The Prostate 34:231-237 (1998)		
↓	2.	CHEN et al., "Structure of pp32, an Acidic Nuclear Protein Which Inhibits Oncogene-induced Formation of Transformed Foci," Molecular Biology of the Cell, vol. 7, 2045-2046, December 1996		
	3.			

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SEP 28 2004

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my		US- 5,726,018	03-10-1998	PASTERNAK	
		US- 5,734,022	03-31-1998	PASTERNAK	
		US-			
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OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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		POTOSKY et al., "The Role of Increasing Detection in the Rising Incidence of Prostate Cancer," JAMA, 273(7)548-552, 1995	<input type="checkbox"/>	<input type="checkbox"/>
		FLEMING et al., "Expression of the c-myc Protooncogene in Human Prostatic Carcinoma and Benign Prostatic Hyperplasia," Cancer Research, 46:1535-1538, 1986	<input type="checkbox"/>	<input type="checkbox"/>
		VISAKORPI et al., "Genetic Changes in Primary and Recurrent Prostate Cancer by Comparative Genomic Hybridization," Cancer Research, 55:342-347, 1995	<input type="checkbox"/>	<input type="checkbox"/>
		GUSEV et al., "pp32 overexpression induces nuclear pleomorphism in rat prostatic carcinoma cells," Cell Proliferation, 29:643-653, 1996, Blackwell Science, Ltd.	<input type="checkbox"/>	<input type="checkbox"/>

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		Examiner Name	Misook Yu	
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			YES	NO
my		WALENSKY et al., "A Novel M, 32,000 Nuclear Phosphoprotein Is Selectively Expressed in Cells Competent for Self-Renewal," Cancer Research, 53:4720-4726, 1993	<input type="checkbox"/>	<input type="checkbox"/>
		VAESEN et al., "Purification and Characterization of Two Putative HLA Class II Associated Protein: PHAPI and PHAPII," Biol. Chem. Hoppe-Seyler, 375:113-126, 1994, Walter de Gruyter & Co.	<input type="checkbox"/>	<input type="checkbox"/>
		FINK et al., "Localization of the Gene Encoding the Putative Human HLA Class II - Associated Protein (PHAPI) to Chromosome 15q22.3-q23 by Fluorescence in Situ Hybridization," Genomics, 29:309-310, 1995, Academic Press, Inc.	<input type="checkbox"/>	<input type="checkbox"/>
		LI et al., "Molecular Identification of I ₁ ^{PP2A} , a Novel Potent Heat-Stable Inhibitor Protein of Protein Phosphatase 2A," Biochemistry, 35:6998-7002, 1996, American Chemical Society	<input type="checkbox"/>	<input type="checkbox"/>
		ULITZUR et al., "Biochemical Characterization of Mapmodulin, a Protein That Binds Microtubule-associated Proteins," Journal of Biological Chemistry, 272:30577-30582, 1997, The American Society for Biochemistry and Molecular Biology, Inc.	<input type="checkbox"/>	<input type="checkbox"/>
		MATSUOKA et al., "A nuclear factor containing the leucine-rich repeats expressed in murine cerebellar neurons," Proc. Natl. Acad. Sci. USA, 91:9670-9674, 1994	<input type="checkbox"/>	<input type="checkbox"/>
		MENCINGER et al., "Expression analysis and chromosomal mapping of a novel human gene, APRIL, encoding an acidic protein rich in leucines," Biochimica et Biophysica Acta., 1395:176-180, 1998, Elsevier Science B.V.	<input type="checkbox"/>	<input type="checkbox"/>
		MALEK et al., "Identification and Preliminary Characterization of Two Related Proliferation-associated Nuclear Phosphoproteins," J. Biol. Chem., 265:13400-13409, 1990, The American Society for Biochemistry and Molecular Biology, Inc.	<input type="checkbox"/>	<input type="checkbox"/>
		ISAACS et al., "Genetic Alterations in Prostate Cancer," Cold Spring Harbor Symposia on Quantitative Biology, 59:653-659, 1994, Cold Spring Harbor Lab Press	<input type="checkbox"/>	<input type="checkbox"/>
		CHEN et al., "Structure of pp32, an Acidic Nuclear Protein Which Inhibits Oncogene-induced Formation of Transformed Foci," Molecular Biology of the Cell, 7:2045-2056, 1996, The American Society for Cell Biology	<input type="checkbox"/>	<input type="checkbox"/>
✓		CATTORETTI et al., "Antigen Unmasking on Formalin-Fixed, Paraffin-Embedded Tissue Sections," Journal of Pathology, 171:83-98, 1993, John Wiley & Sons, Inc.	<input type="checkbox"/>	<input type="checkbox"/>

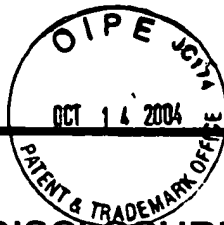
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Art Unit	1642
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Sheet	1	of	9	Attorney Docket Number	62732.000105
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my	1.	US 4874845	10-17-1989	Saito et al.	
	2.	US 4889818	12-26-1989	Gelfand et al.	
	3.	US 5200313	04-06-1993	Carrico	
	4.	US 5527884	06-18-1996	Russell et al.	
	5.	US 5756676	05-26-1998	Pasternack	
	6.	US 5874234	02-23-1999	Pasternack	
	7.	US 6040173	03-21-2000	Pasternack	
	8.	US 20030129631	07-10-2003	Pasternack et al	

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my	9.	WO	99/29906	06-17-1999	Pasternack et al.		<input type="checkbox"/>	<input type="checkbox"/>
	10.	WO	92/02554	02-20-1992	Pasternack		<input type="checkbox"/>	<input type="checkbox"/>
	11.	EPO	0375408	06-27-1990	Hogan et al		<input type="checkbox"/>	<input type="checkbox"/>

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			YES	NO
my	12.	(ABSTRACT) ANDERSON et al., "Tissue Specific Isoforms of Erythroid Protein 4.1," Spectrin-Associated Proteins, item no. 2032, J. Cell Biol., 103: page 542a.		
	13.	(ABSTRACT) PASTERNAK et al., "Protein 4.1 as a Myosin Binding and Modulating Protein: Insights into a new functional class of proteins," Cellular and Molecular Biology of Normal and Abnormal Erythroid Membranes, J. Cell Biochem., Suppl. 13, Part B, pp 209		
	14.	KRAUSS et al., "Structural protein 4.1 is located in mammalian centrosomes," Proc. Natl. Acad. Sci. USA 94: 7297-7302 (1997), the National Academy of Sciences.		
	15.	CHEN, et al., 1989, "Phosphorylation of Retinoblastoma Gene Product is Modulated During the Cell Cycle and Cellular Differentiation," Cell, 58:1193-1198, Cell Press.		
	16.	COOPER, et al., "RB and the Cell Cycle: Entrance or Exit?" 1989, Cell, 58:1009-1011, Cell Press.		
	17.	FEUERSTEIN, et al., 1988, "The Nuclear Matrix Protein, Numatrin (B23), Is Associated With Growth Factor-Induced Mitogenesis in Swiss 3T3 Fibroblasts and with T Lymphocyte Proliferation Stimulated by Lectins and Anti-T Cell Antigen Receptor Antibody," J. Cell Biol., 107:1629-1642, the Rockefeller University Press.		
	18.	GERDES, et al., 1984, "Cell Cycle Analysis of a Cell Proliferation-Associated Human Nuclear Antigen Defined by the Monoclonal Antibody Ki-67," J. Immunol., 133:1710-1715, the American Association of Immunologists.		
↓	19.	GOMEZ-MARQUEZ, et al., 1989, "The Expression of Prothymosin α Gene in T Lymphocytes and Leukemic Lymphoid Cells Is Tied to Lymphocyte Proliferation," J. Biol. Chem., 264:8451-8454, The American Society for Biochemistry and Molecular Biology, Inc.		

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			YES	NO
my	20.	MORLA, et al., 1989, "Reversible Tyrosine Phosphorylation of cdc2: Dephosphorylation Accompanies Activation During Entry into Mitosis," Cell, 58:193-203, Cell Press.		
	21.	SHAWVER, et al., 1989, "Platelet-Derived Growth Factor Induces Phosphorylation of a 64-kDa Nuclear Protein," J. Biol. Chem., 264:1046-1050, the American Society for Biochemistry and Molecular Biology, Inc.		
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	27.	DURBAN, et al., 1985, "Topoisomerase I Phosphorylation <i>in vitro</i> and in Rapidly Growing Novikoff Hepatoma Cells," EMBO J., 4:2921-2926, IRL Press Limited, Oxford, England.		
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	29.	HOLCOMB, et al., 1984, "Phosphorylation of the C-Proteins of HeLa Cell hnRNP Particles," J. Biol. Chem., 259:31-40, the American Society of Biological Chemists, Inc.		
✓	30.	KLARLUND, et al., 1988, "Insulin-Like Growth Factor I and Insulin Rapidly Increase Casein Kinase II Activity in BALB/c 3T3 Fibroblasts," J. Biol. Chem., 263:15872-15875, the American Society for Biochemistry and Molecular Biology, Inc.		

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my	31.	MATTHEWS, et al., 1984, "Nuclear Protein Kinases," Mol. Cell. Biochem., 59:81-99, Martinus Nijhoff Publishers, Boston, Mass., Printed in the Netherlands.		
	32.	PFAFF, et al., 1988, "Casein Kinase II Accumulation in the Nucleolus and Its Role in Nucleolar Phosphorylation," Biochem. Biophys. Acta, 969:100-109, Elsevier Science Publishers B.V.		
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	35.	WALTON, et al., 1985, "Phosphorylation of High Mobility Group Protein 14 by Casein Kinase II," J. Biol. Chem., 260:4745-4750, the American Society of Biological Chemists, Inc.		
	36.	ELIYAHU, et al., 1989, "Wild-Type p53 Can Inhibit Oncogene-Mediated Focus Formation," Proc. Natl. Acad. Sci., USA, 86:8763-8767.		
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			YES	NO
my	42.	YEHIELY, et al., 1992, "The Gene for the Rat Heat-Shock Cognate, hsc 70, Can Suppress Oncogene-Mediated Transformation," Cell. Growth Diff., 3:803-809.		
	43.	ALNEMRI, et al., 1992, "Overexpressed Full-Length Human BCL2 Extends the Survival of Baculovirus-Infected Sf9 Insect Cells," Proc. Natl. Acad. Sci., USA, 89:7295-7299.		
	44.	BUTTYAN, R., 1991, "Genetic Response of Prostate Cells to Androgen Deprivation: Insights Into the Cellular Mechanism of Apoptosis," in Apoptosis: The Molecular Basis of Cell Death, J. Inglis, et al, eds., Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp. 157-173.		
	45.	DE JONG, et al., 1994, "Subcellular Localization of the bcl-2 Protein in Malignant and Normal Lymphoid Cells," Cancer Res., 54:256-260.		
	46.	GERSCHEINSON, et al., 1991, "Apoptosis and Cell Proliferation are Terms of the Growth Equation," in Apoptosis: The Molecular Basis of Cell Death, J. Inglis, et al, eds., Cold Spring Harbor, NY: Cold Spring Harbor Laboratory Press, pp. 175-192.		
	47.	HOCKENBERY, et al., 1991, "BCL2 Protein is Topographically Restricted in Tissues Characterized by Apoptotic Cell Death," Proc. Natl. Acad. Sci., USA, 88:6961-6965.		
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	52.	DAWSON, et al., 1991, "Nuclear Grading of Breast Carcinoma by Image Analysis. Classification by Multivariate and Neural Network Analysis," Am. J. Clin. Pathol., 95:S29-S37.		

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			YES	NO
my	53.	DIAMOND, et al., 1982 "A New Method To Assess Metastatic Potential of Human Prostate Cancer: Relative Nuclear Roundness," J. Urol., 128:729-734, the Williams & Wilkins Co., Printed in the U.S.		
	54.	DIAMOND, et al., 1982, "Computerized Image Analysis of Nuclear Shape as a Prognostic Factor for Prostatic Cancer," The Prostate, 3:321-332, Alan R. Liss, Inc.		
	55.	DRESCHER, et al., 1993, "Prognostic Significance of DNA Content and Nuclear Morphology in Borderline Ovarian Tumors," Gynecol. Oncol., 48:242-246, Academic Press Inc.		
	56.	EPSTEIN, et al., 1984, "Nuclear Roundness Factor. A Predictor of Progression in Untreated State A2 Prostate Cancer," Cancer, 54:1666-1671.		
	57.	FLEMING, et al., 1990, "Image Analysis Cytometry of Dysplastic Nevi," J. Invest. Dermatol., 95:287-291, the Society for Investigative Dermatology, Inc.		
	58.	GALERA-DAVIDSON, et al., 1990, "Cytophotometric DNA Measurements in Medullary Thyroid Carcinoma," Cancer, 65:2255-2260.		
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	60.	MURPHY, et al., 1990, "Nuclear Shape Analysis for Assessment of Prognosis in Renal Cell Carcinoma," J. Urol., 143:1103-1107, American Urological Association, Inc.		
	61.	PARTIN, et al., 1990, "Nuclear Morphometry as a Predictor of Response to Therapy in Wilms Tumor: A Preliminary Report," J. Urol., 144:952-954, American Urological Association, Inc.		
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	63.	RICKAERT, et al., 1992, "Computerized Morphonuclear Characteristics and DNA Content of Adenocarcinoma of the Pancreas, Chronic Pancreatitis, and Normal Tissues: Relationship with Histopathologic Grading," Hum. Pathol., 23:1210-1215, W.B. Saunders Co.		

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	09/591,500
Filing Date	June 12, 2000
First Named Inventor	Gary PASTERNAK et al.
Art Unit	1642
Examiner Name	Misook Yu

Sheet	7	of	9	Attorney Docket Number	62732.000105
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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
my	64.	VAN ETEN, et al., 1989, "The Mouse Type IV c-abl Gene Product Is a Nuclear Protein, and Activation of Transforming Ability is Associated with Cytoplasmic Localization," Cell 58:669-678, Cell Press.		
	65.	WEGER, et al., 1992, "Morphometry and Prognosis in Cancer of the Pancreatic Head," Pathol. Res. Pract., 188:764-769, Gustav Fischer Verlag, Stuttgart.		
	66.	ANDERSON, et al., 1988, "Tissue-Specific Analogues of Erythrocyte Protein 4.1 Retain Functional Domains," J. Cell. Biochem., 37:269-284, Alan R. Liss, Inc.		
	67.	ASTER, et al., 1984, "Identification of Spectrin and Protein 4.1-Like Proteins In Mammalian Lens," Biochem. Biophys. Res. Comm., 119:726-734, Academic Press Inc.		
	68.	ASTER, et al., 1986, "The 4.1-Like Proteins of the Bovine Lens: Spectrin-binding Proteins Closely Related in Structure to Red Blood Cell Protein 4.1" J. Cell Biol., 103:115-122, the Rockefeller University Press.		
	69.	BOURGUIGNON, et al., 1986, "Lymphoma Thy-1 Glycoprotein Is Linked to the Cytoskeleton via a 4.1-Like Protein," J. Cell Biol., 103:2529-2540, the Rockefeller University Press.		
	70.	CHO, et al., 1988, "Antibodies to Cytoskeletal Erythrocyte Protein 4.1 Recognizes Domain Specific Proteins of the Hepatocyte Plasma Membrane in Isolated Hepatocyte Couplets," Gastroenterology, 94:A529.		
	71.	COHEN, et al., 1982, "A Protein Immunologically Related To Erythrocyte Band 4.1 is Found On Stress Fibres of Non-Erythroid Cells," Nature, 299:648-650, Macmillan Journals Ltd.		
	72.	CONSTANTINESCU, et al., 1986, "Immunological Detection of An Analogue of the Erythroid Protein 4.1 In Endothelial Cells," Cell Biol. Intl. Rept., 10:861-868.		
	73.	CORREAS, Isabel, 1991, "Characterization of Isoforms of Protein 4.1 Present in the Nucleus," Biochem. J., 279:581-585, Printed in Great Britain.		
	74.	DAVIES, et al., 1985, "Platelets Contain Proteins Immunologically Related to Red Cell Spectrin and Protein 4.1," Blood, 65:52-59, Grune & Stratton Inc.		
✓	75.	DE CESARIS, et al., 1989, "Spectrin, Fodrin and Protein 4.1-Like Proteins In Differentiating Rat Germ Cells," Differentiation, 41:216-222, Springer-Verlag.		

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Misook Yu

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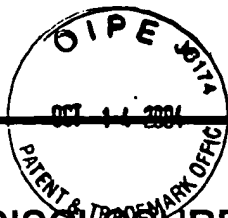
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
my	76.	GOODMAN, et al., 1984, "Identification and Location of Brain Protein 4.1," Science, 224:1433-1436.		
	77.	SPENCER, et al., 1990, "Membrane Skeleton Protein 4.1 in Developing Xenopus: Expression In Postmitotic Cells of the Retina," Developmental Biology, 139:279-291, Academic Press Inc.		
	78.	SPIEGEL, et al., 1984, "An Analogue of the Erythroid Membrane Skeletal Protein 4.1 In Nonerythroid Cells," J. Cell Biol., 99:886-893, the Rockefeller University Press.		
	79.	STEVENSON, et al., 1989, "Fodrin and Band 4.1 in a plasma Membrane-Associated Fraction of Human Neutrophils," Blood, 74:2136-2143, Grune & Stratton Inc.		
	80.	TANG, et al., 1988, "Translation of an mRNA Species Encoding Non-Erythroid Protein 4.1 Generates Two Proteins One of which May Be Localized In The Nucleus," Clin. Res., 36:405a.		
	81.	TANG, et al., 1988, "Expression of Specific Isoforms of Protein 4.1 in Erythroid and Non-Erythroid Tissues," Adv. Exp. Med. Biol., 241:81-95.		
	82.	TANG, et al., 1988, "Selective Expression of an Erythroid-Specific Isoform of Protein 4.1," Proc. Natl. Acad. Sci., USA, 85:3713-3717.		
	83.	TANG, et al., 1990, "Membrane Skeletal Protein 4.1 Of Human Erythroid and Non-Erythroid Cells Is Composed Of Multiple Isoforms With Novel Sizes, Functions and Tissue Specific Expression," Cell. Molec. Biol. of Normal and Abnormal Erythroid Membrane, Alan R. Liss, Inc., New York, pp. 43-59		
	84.	TANG, et al., 1990, "Heterogeneity of mRNA and Protein Products Arising From the Protein 4.1 Gene in Erythroid and Nonerythroid Tissues," J. Cell Biol., 110:617-624, the Rockefeller University Press.		
	85.	ZIPARO, et al., 1986, "Proteins of the Membrane Skeleton In Rat Sertoli Cells," J. Cell Sci., 86:145-154, the Company of Biologists Ltd., Printed in Great Britain.		
	86.	SONODA et al., "Complete Nucleotide Sequence of Human Phosphoribosyl Pyrophosphate Synthetase Subunit I (PRSI) cDNA and a Comparison with Human and Rat PRPS Gene Families," The Journal of Biochemistry. vol. 109., no. 2, pp. 361-364, Feb. 1991.		

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			YES	NO
m7	87.	ATCC/NIH Repository Catalogue of Human and Mouse DNA/Probes and Libraries, Eighth Edition, pp. 1-58 and 63-70, 1994		
	88.	(ABSTRACT) PASTERNAK et al., "Murine Lymphocytes Express a Novel Form of Protein 4.1", Spectrin-associated Proteins, J. Cell Biol., 103: pp. 543a, item no. 2035		
	89.	(ABSTRACT) PASTERNAK et al., "Cycle-Dependent Variation in the Localization of a Protein Related to Protein 4.1", Nuclear Matrix and Other Proteins, J. Cell Biol., 105: pp. 71a, item no. 392		
	90.	(ABSTRACT) PASTERNAK et al., "Characterization of a Protein 4.1 Analog from Murine B Lymphocytes", Membrane-Mediated Cytotoxicity, J. Cell Biochem., Suppl. 10, Part B, pp. 97, item no. G143		
	91.	JASKULSKI, et al., 1988, "Regulation of the Proliferating Cell Nuclear Antigen Cyclin and Thymidine Kinase mRNA Levels by Growth Factors," J. Biol. Chem., 263:10175-10179, the American Society for Biochemistry and Molecular Biology, Inc.		
	92.	KRAUSS, et al., "Structural Protein 4.1 in the Nucleus of Human Cells: Dynamic Rearrangements during Cell Division," J. Cell Biol., 137:275-289, 1997, the Rockefeller University Press.		
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